



AMADA WELD TECH INC.

FOR IMMEDIATE RELEASE

**AMADA WELD TECH Expands the SIGMA LS Laser Platform with Flexible Integration
Formats and Motorized Focus Upgrade**

*Configurable femtosecond laser micromachining subsystem for flexible production-line
integration*

[AMADA WELD TECH](#), a leading manufacturer of welding, marking, cutting, sealing, and bonding equipment and systems, announces key enhancements to its [SIGMA LS Laser Micromachining Subsystem](#), centered on a new motorized beam delivery head and flexible vertical and horizontal mounting options. These upgrades reduce installation complications and give machine builders and system integrators greater freedom to integrate femtosecond laser micromachining capabilities into complex production lines and dedicated work cells, all while maintaining high precision and process stability.

The SIGMA LS Subsystem combines a femtosecond laser, beam delivery optics, scan head or cutting head, focus lens, camera, and controller/software in a single, integration-ready package, reducing engineering time and risk for OEMs and system integrators. With femtosecond laser options from 5 W to 80 W and IR, green, or UV wavelength choices, users can configure the system to match demanding application and material requirements while achieving high-quality processing with minimal thermal effects.

At the core of the latest update is an optional motorized focusing upgrade that enables software-controlled focal point adjustment without manual intervention at the workpiece. By allowing the focal point to be positioned programmatically, the SIGMA LS supports complex, multi-level feature geometries, varying material thicknesses, and recipe-based process changes, helping manufacturers to increase throughput and reduce setup time.

To further simplify mechanical integration, the SIGMA LS is now available in both vertical and horizontal orientations that can be specified to match process flows and machine designs. These flexible formats allow the subsystem to be mounted above or beside fixtures and processing zones, or integrated within larger systems, enclosures, and automated production lines, making it suitable for both new machine builds and retrofits to upgrade existing platforms with femtosecond laser capability.

Engineered as a complete micromachining instrument, the SIGMA LS supports precision milling, selective ablation, drilling, surface texturing, and scribing where high stability, dimensional accuracy, and edge quality are crucial for a successful process.

For more information, visit <https://amadaweldtech.com/product/sigma-laser-micromachining-subsystem/>

About AMADA WELD TECH

Founded in 1946, AMADA is a global leader in metalworking machinery, and AMADA WELD TECH, INC. - established in 1948 - is a proud AMADA Group company dedicated to solving customers' manufacturing challenges. Recognizing that no single solution fits every application, AMADA WELD TECH combines decades of independent expertise with the strength and innovation of a worldwide organization to provide innovative, reliable manufacturing technology solutions. The company designs and manufactures equipment and systems for resistance welding, laser welding, laser marking, laser cutting, hermetic sealing, and hot bar reflow soldering and bonding, serving markets including medical devices, battery, aerospace, automotive, and electronic components. AMADA WELD TECH is an ISO 9001–certified company. Contact AMADA WELD TECH at info@amadaweldtech.com. Learn more about the company's products and services at www.amadaweldtech.com.

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